

SOFTWARE-CONTROLLED CACHE SET MANAGEMENT
WITH SOFTWARE-GENERATED CLASS IDENTIFIERS

ABSTRACT

The present invention provides for selectively
5 overwriting sets of a cache as a function of a replacement
management table and a least recently used function. A
class identifier is created as a function of an address
miss. A replacement management table is employable to read
the class identifier to create a tag replacement control
10 indicia. The cache, comprising a plurality of sets, is
employable to disable the replacement of at least one of the
plurality of sets as a function of the tag replacement
control indicia.